

# INFORMATION REPORT INFORMATION REPORT

## CENTRAL INTELLIGENCE AGENCY

This material contains information affecting the National Defense of the United States within the meaning of the Espionage Laws, Title 18, U.S.C. Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

S-E-C-R-E-T

25X1

COUNTRY USSR

REPORT

SUBJECT Electrical Components of Sputnik III

DATE DISTR. 5 December 1958

NO. PAGES 1

REFERENCES RD

DATE OF INFO.

PLACE &amp; DATE ACQ.

25X1

25X1

SOURCE EVALUATIONS ARE DEFINITIVE. APPRAISAL OF CONTENT IS TENTATIVE.

1. The following data have been noted regarding the electrical components of Sputnik III:

- a. The solar batteries were made of silicon with a voltage of 0.65 volts per cell and an efficiency of 10-11 percent. These batteries were being produced at the Lebedev Institute for the Physics of Solids [probably the Physics Institute of P.N. Lebedev in Moscow].
- b. The antennas were dipole, were bent and were probably short. They were fed through a "gamma match" (half T).
- c. The insulation of the transmitter system (sistemi radianti) had not been taken care of, and a common bakelite was probably being used.
- d. The entire mechanical make-up left much to be desired as far as precision and accuracy were concerned. Various pieces were poorly finished and did not fit well and many screws had threads which were worn smooth.

25X1

S-E-C-R-E-T

25X1

STATE	X	ARMY	X	NAVY	X	AIR	X	FBI	AEC	OSI/EV	X		
(Note: Washington distribution indicated by "X"; Field distribution by "#".)													

# INFORMATION REPORT INFORMATION REPORT

Sanitized Copy Approved for Release 2010/06/24 : CIA-RDP80T00246A045800550001-3  
25X1

**Page Denied**

Sanitized Copy Approved for Release 2010/06/24 : CIA-RDP80T00246A045800550001-3